Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	Question Image	A. 0 B. 1 C. 13
2	The multiplicative inverse of -3i is	A. 3i B. -3i C. -1/3i D. 1/3 i
3	A man of height 6 ft observes the top of a tower and the foot of the tower at angles of 45° and 30° of elevation and depression respectively. The height of the tower is	
4	Question Image	
5	Question Image	
6	tan (-135°) = _____θ	A. 0 B. 1 C. 2 D. 3
7	202.04 is an example of	A. Recurring decimals B. Non-recurring decimals C. Terminating decimals D. None of these
8	Question Image	
9	Range of y = sec x is	A. -1≤ y≤ 1 B. y≥ 1 or y≤ -1 C. y≤ 1or y≥ -1 D. -∞ < y < +∞
10	The set {1, -1, 1, -1}, form a group under	A. Addition B. Multiplication C. Subtraction D. None
11	The sum of infinite numbers of terms of an arithmetic series is	A. Finite B. Infinite C. May or may not finite D. None of these
12	If the pth, qth, and rth terms of an A.P. are in G.P:., then the common ratio of the G.P. is	
13	The zero vector is regarded to be parallel to	A. Every vector B. Is some cases C. Both a,b D. None
14	Question Image	
15	Derivative of x^3w.r.t x is	A. 0 B. 1 C. 3x² D. x³
16	If f(x) = x^2then f(0) is	A. 0 B. 1 C. 2 D. none of these
17	If a variable y dependents on a variable x in such a way that each value of x determines exactly one value of y, then we say that	A. x is function of y B. y is a function of x C. y is independent variable D. x is real valued function
18	We also the system of non-homogeneous linear equations by	A. a and b B. b and c C. c and a D. a, b and c
		A. ¹⁰C₆

19	Question Image	B. ¹⁰C₅ C. ¹⁰C₄ D. None
20	The length of the tangent from (2, 1) to the circle $x^2 + y^2 + 4y + 3 = 0$ is	